LAND APPLICATION SITE THOMAS J BALL JR CRTJB 1 - 7 CAROLINE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 12-27-20/8 between monas ISaII JV referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Lar	١d٠	ow	'n	e	r
-----	-----	----	----	---	---

The Landowner is the owner of record of the real property located in <u>Caro line Co.</u> Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
8-A-39			
1-14-71 Newton	n 74-A-72		
5-A-5 Newtown	n		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

The Landowner is the sole owner of the properties identified herein.

The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

- 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
- 2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids

Water treatment residuals □ No

Food processing waste ⊠Yes

Other industrial sludges ✓ Yes

Printed name

By:

Mailing Address 22226 Perimeter Road Bowling Green, Va. 22427 Phone No. 204-994-4642 -

□ I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. $^\Box$ I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership,

proprietorship, LLC, municipality, state or federal agency, etc.

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed nar	me	Mailing Address	Permittee- Authorized Representative
	Susan Trumbo	PO Box 562, Remington Virginia 22734	Signature
Title	Technical Manager	Phone No. 540-547-3300	Stante

Permittee:	Recyc Systems, Inc	County or City: <u>Caroline</u> Co.
Landowner: <u>T</u>	nomas Ball	

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols:
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three
 years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45
 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

cated in <u>Carolin's C</u> in Table 1 and identified	ر کے . Virginia, which includes the
	on the tax map(s) with county
er treatment residuals or	other industrial sludges
Tax Parcel ID	Tax Parcel ID
encessore mid a tim, mai el	Section 1
	A ARAST
ne Landowner shall: public access and crop manually public access and crop public access applicable to such a processing waste	erein. The Landowner will available to the Permittee for ntained becomes incorrect. specified below, on the ssion for DEQ staff to conduct mitted residuals for the oplication.
Land Voc. 22427 16357 by my title as executor, Truste	
	n Supplement A (check if application of the properties identified here is of the property to which be Landowner shall: bublic access and crop mowing property transfer. In on the fields identified heat the fields are no longe the information herein consider also grants permission of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a processing waster to the information of perents applicable to such a procession and the information of the informa

prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed na	me on which the second	Mailing Address	Permittee- Authorized Representative
	Susan Trumbo	PO Box 562, Remington Virginia 22734	Signature
Title	Technical Manager	Phone No. 540-547-3300	Strule

Rev 6/11/2018

		5 2			April 6 x		1 ¹⁷ -v		
Dorm	nittee:	Red	vc Si	stems, Inc	Cour	ity or City:	Caroline	_ Co.	14.
	owner:		ALL COL	TEACHER STATE	Even E N	ist sing v time	SELECTION F. MI	mar cress	50 00 HW 1 0 8950
Lanu	OWITET.	- Outsit	-00	37 9247					**
	0.11		100	t Requirements:	Tur di sello si	TO THE STATE OF TH	n di dia dia dia dia dia mandahan	gille o oxo especial sold	
land a	pplication	n of biosolids	, the c	a DEQ Biosolids Fa omponents of bloso	lids and prope	er nandling and	i ianu applicati	טוו טו טוטפ	olius,
identi that I	fied belov am respo	v must be co insible for the	mplied imple	d by the Permittee t with after biosolids mentation of these	have been ap practices.	oplied on my pr	орепу іп огае	r to protec	A DUDIIC Health, and
I agre	e to imple	ement the fol	lowing	site management p	ractices at ea	ich site under n	ny ownership f	following t	he land application
1.	biosolid	tion Signs: I s land applic ompleted.	will no ation s	remove any signs ite, unless requeste	posted by the d by the Perm	Permittee for t littee, until at le	he purpose of ast 30 days a	identifyin fter land a	g my field as a pplication at that
2.	Public A a.	Public acce	ss to la	and with a high pote	ntial for public	c exposure sha	II be restricted	for at lea	st one year
	b.	Public acce any applica this same p	ss to la	ication of biosolids. and with a low poter biosolids. No bioso of time unless adequ	lids amended	soil shall be e	xcavated or re	movea rra	om the site during
	C.	biosolids w	nen the	d where biosolids are harvested turf is p specified by DEQ.	aced on eithe	er land with a hi	gn potential fo	or public e	xposure or a lawn,
3.	Crop Re a. b.	shall not be Food crops application	harve with h of bios	arvested parts that sted for 14 months arvested parts belo collds when the bios corporation into the	after the appl w the surface olids remain (soil	of the land sha on the land surf	ire and are tot lids. Ill not be harve face for a time	ally above ested for 2 period of	0 months after the four (4) or more
		Food crops biosolids re Other food Feed crops	with h main o crops shall i	arvested parts belo on the land surface and fiber crops shal not be harvested for	w the surface for a time peri I not be harve 30 days afte	od of less than ested for 30 day r the application	four (4) montry's after the app of biosolids (olication o 60 days if	f biosolids; fed to lactating
4.	Fol a. b. c.	llowing bioso Meat produ Lactating d Other anim	lids ap icing li airy ar ials sh	ons: plication to pasture vestock shall not be ilmals shall not be g all be restricted fron	or nayland si grazed for 30 razed for a m grazing for 3	tes: 0 days, ninimum of 60 d 30 days;	ays.		anteriul/\$867 AVIII. upi 1
5.	residua manag	ils application ement plan d	ns such evelop	fertilizer or manure that the total crop ed by a person cert	needs for nut ified in accor	dance with §10	ted with the bi xceeded as ide .1-104.2 of the	osolids ar entified in Code of	id industrial the nutrient Virginia;
6.	Voare f	allowing the	applica	een shown to accur tion of biosolids or s/hectare).	industrial resi	duals which be	ar cadmium ed	quai to or	exceeding 0.45
	1)0.1%	£ cu.		L				81	-19
-	Lando	wner's Sigr	ature	r Be Beile	of ser need	- , y ₁ - ;	4 T. XIVE	Date	
		119	N. C.	The Beautiful Control		7 J. 199	g sabe	100 H	Fra AF C
					ä	8	1(5,2)		1865 H W

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc.

Site Name:

Thomas J Ball Jr

County or City:

Caroline Co.

Please Print

Signature not required on this page

Ticase i line	Signature not required on this page				
Tax Parcel ID(s)	Landowners (s)				
7.5-A-5	Thomas J Ball, Jr & Dawn N Ball				
74-A-71	Thomas J Ball, Jr				
74-A-72	Thomas J Ball, Jr				
58-A-39	Thomas J Ball, Jr				
10					

FARM DATA SHEET

SITE NAME:	Thomas J Ball Jr	COUNTY:	Caroline
OWNER:	Thomas J Ball Jr and Dawn W Ball	OPERATOR:	Engel Farms Kevin Engel
OWNER'S	22226 Perimeter Road	OPERATOR'S	PO Box 279
ADDRESS:	Bowling Green Virginia 22427	ADDRESS:	Hanover Virginia 23069
OWNER'S TELEPHONE:	804-994-4642 / 804-576-6357	OPERATOR'S TELEPHONE:	804-537-5821
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-370.9486
# CATTLE:	none	EMAIL:	
LAGOON or SLURRY:	none	LATITUDE:	F 1-3 38.032 F 4-7 37.973
TOPO QUAD:	Bowling Green Sparta	LONGITUDE:	F 1-3 -77.257 F 4-7 -77.203
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
	•		

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Enviro	nmentally	Sensitiv	e Soils		Tax	FSA	FSA
Identification	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro Map	Map #	Tract#	Field #
CRTJB-01	48.6	11A Dec-Apr 11B Dec-Apr	V HDND4 S	Name :		YO51	58-A-39	3099	3
CRTJB-02	73.5	11A Dec-Apr 11B Dec-Apr				YO51	58-A-39	3099	2
CRTJB-03	49.2	11B Dec- Apr	2.000	·	*****	YO51	58-A-39	3099	10
CRTJB-04	36.9	11B Dec-Apr 22B Dec-Apr	Validatiles	*****	-	YO51	74-A-71 74-A-72	3105	2
CRTJB-05	27.4	11B Dec-Apr 22B Dec-Apr		V. 100 (100 (100 (100 (100 (100 (100 (100		YO52	74-A-71 74-A-72	3105	3
CRTJB-06	16.4	22B Dec-Apr	2 111111	S tatica)		YO52	74-A-71 74-A-72	2902	1
CRTJB-07	26.6	11B Dec-Apr	PARAME		and state to the	YO51	75-A-5	2899	1
TOTAL ACRES IN SITE	278.6								

Thomas J Ball Jr

Westmoreland County

Field Id Changes

New Field	Old Field
1	CRMLB 09
2	CRMLB 10
3	CRMLB 11
4	CRMLB 13
5	CRMBL 14
6	CRMBL 15
7	CRMBL 12

fields from old site Maxie L Broaddus

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

Kevin Engel PO Box 279 Hanover, VA 23069 804.537.5821

Integrator:None

Farm Coordinates

Easting: 0, Northing: 0, zone: 17

Watershed Summary

watershed: YO51 county: Caroline

Nutrient Management Planner

Susan Trumbo Recyc Systems, Inc PO Box 562 Remington Virginia 22734 540.547.3300

Certification Code: 103

Acreage Use Summary

Total Acreage in this plan: 278.6

Cropland: 278.6
Hayland: 0.
Pasture: 0.
Specialty: 0.

Livestock Summary

Beef Cattle 0
Dairy Cattle 0
Poultry 0
Swine 0
Other 0

Manure Production Balance

1 1-41	Imported	Produced	Exported	Used	Net
kgals	0,	0.	0.	0.	0.
tons	0,	0.	0.	0.	0.

Plan written 4/24/2020 Valid until 4/24/2020

Signature:		
-	Planner	date

Nutrient Management Plan Balance Sheet (Spring, 2020-Summer, 2025) Thomas J Ball Jr Planner: Susan Trumbo (cert. No. 103)

Tract: 2899

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)		Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/TJB-07(N)	27/27	2020	Corn (grain)	140-60-60	20/0				120-60-60	N/A			
	l l		Fallow	0-0-0	0/0				0-60-60	N/A			
		2021	Soybeans (FS)	0-60-60	0/0				0-120-120	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Tract: 2902 Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	anthra in a
1/TJB-06(N)	16/16	2020	Corn (grain) Fallow Soybeans (FS)	150-80-80 0-0-0 0-60-60	20/0 0/0 0/0				130-80-80 0-80-80 0-140-140	N/A N/A N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Tract: 3099

Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Сгор	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	(d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/TJB-01(N)	49/49	2020	Corn (grain) Fallow Soybeans (FS)	140-60-60 0-0-0 0-60-60	20/0 0/0 0/0				120-60-60 0-60-60 0-120-120	N/A N/A N/A			
2/TJB-02(N)	74/74	2020	Corn (grain) Fallow Soybeans (FS)	140-60-60 0-0-0 0-60-60	20/0 0/0 0/0				120-60-60 0-60-60 0-120-120	N/A N/A N/A			
10/TJB-03(N)	49/49		Corn (grain) Fallow Soybeans (FS)	140-60-60 0-0-0 0-60-60	20/0 0/0 0/0				120-60-60 0-60-60 0-120-120	N/A N/A N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Tract: 3105 Location: Caroline (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed) Field Size Yr. Needs Crop Leg Manure/Biosld Man/Bios Net = Needs -Commercial Sum Notes CFSA No. Rate & Type (ac) N-P-K appld N-P-K /Man (d) N-P-K N-P-K /Name Total/ (lbs/ac) (lbs/ac) Resid (season) (lbs/ac) rem (lbs/ac) Used cred 37/37 2/TJB-04(N) 2020 Corn (grain) 140-60-60 20/0 120-60-60 N/A Fallow 0-0-0 0/0 0-60-60 N/A 2021 Soybeans (FS) 0-60-60 0/0 0-120-120 N/A 3/TJB-05(N) 27/27 2020 Corn (grain) 150-80-80 20/0 130-80-80 N/A

0-80-80

0-140-140

N/A

N/A

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

2021

Fallow

Soybeans (FS)

0-0-0

0-60-60

0/0

0/0

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings	i K
2899	2899/1	TJB-07	27	Kempsville	Illa	11	Not Suited	III		
2902	0/1	TJB-06	16	Slagle	llb	1	III	II		
3099	3099/3	TJB-01	49	Kempsville	Illa	11	III	11		
	3099/2	TJB-02	74	Kempsville	Illa	11	Not Suited	II		
	3099/10	TJB-03	49	Kempsville	Illa	11	Not Suited	11		
3105	3105/2	TJB-04	37	Kempsville	llia	1	III	11		
	3105/3	TJB-05	27	Slagle	IIb	1	Ш	H		

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
	>170	>80	>64	>6	>4.0
I	150-170	70-80	56-64	4-6	3.5-4.0
11	130-150	60-70	48-56	<4	3.0-3.5
V	100-130	50-60	40-48	NA	<3.0
/	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2020 - Summer, 2025

Farm Name: Thomas J Ball Jr

Location: Caroline Specialist: Susan Trumbo

N-based Acres: 278.6 P-based Acres: 0.0

Tract Name: 2899 FSA Number: 2899

Location: Caroline

Field Name: TJB-07

Total Acres: 26.60 Usable Acres: 26.60

FSA Number: 1 Tract: 2899

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
5 10E Emporia Kempsville Remlik

85 11B Emporia Kempsville

5 11C Emporia Kempsville

5 21C Kempsville Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2020-Sp 139.9 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

2021-Sp 39.9 bushel(s) Soybeans (FS) - No Till

Tract Name: 2902 FSA Number: 0

Location: Caroline

Field Name: TJB-06

Total Acres: 16.40 Usable Acres: 16.40

FSA Number: 1 Tract: 2902

Location: Caroline

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES 85 21C Kempsville Slagle

15 22B Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2020-Sp 146.6 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

2021-Sp 40.0 bushel(s) Soybeans (FS) - No Till

Tract Name: 3099 FSA Number: 3099

Location: Caroline

Field Name: TJB-01

Total Acres: 48.60 Usable Acres: 48.60

FSA Number: 3 Tract: 3099

Location:

Caroline

Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
5 11A Emporia Kempsville
45 11B Emporia Kempsville
50 21C Kempsville Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2020-Sp 143.0 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

2021-Sp 40.0 bushel(s) Soybeans (FS) - No Till

Field Name: TJB-02

Total Acres: 73.50 Usable Acres: 73.50

FSA Number: 2 Tract: 3099

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
40 11A Emporia Kempsville
40 11B Emporia Kempsville
5 11C Emporia Kempsville
15 21C Kempsville Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME 2020-Sp 140.9 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

2021-Sp 40.0 bushel(s) Soybeans (FS) - No Till

Field Name: TJB-03

Total Acres: 49.20 Usable Acres: 49.20

FSA Number: 10 Tract: 3099

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
20 21C Kempsville Slagle
80 11B Emporia Kempsville

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME
2020-Sp 141.2 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

2021-Sp 40.0 bushel(s) Soybeans (FS) - No Till

Tract Name: 3105 FSA Number: 3105

Location: Caroline

Field Name: TJB-04

Total Acres: 36.90 Usable Acres: 36.90

FSA Number: 2

Tract:

3105

Location:

Caroline

Slope Class:

В Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Ρ

PH

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

5

11B

10E Emporia Kempsville Remlik Emporia Kempsville

65

Emporia Kempsville

5

11C 22B

25

Slagle

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

2020-Sp

142.1 bushel(s)

Corn (grain) - No Till Fallow - No Till

2020-Fa 2021-Sp

0.0

39.9 bushel(s)

Soybeans (FS) - No Till

Field Name:

TJB-05

Total Acres:

27.40 Usable Acres: 27.40

FSA Number: Tract:

3 3105

Location:

Caroline

Slope Class:

С Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
30 11B Emporia Kempsville
50 21C Kempsville Slagle
20 22B Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

2020-Sp 145.0 bushel(s) Corn (grain) - No Till

2020-Fa 0.0 Fallow - No Till

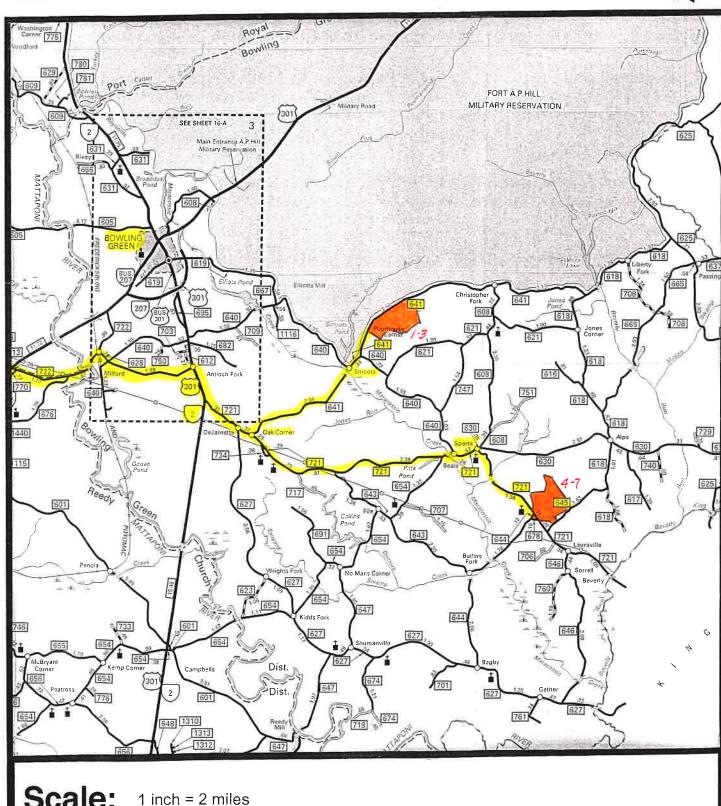
2021-Sp 40.0 bushel(s) Soybeans (FS) - No Till

MAPS

Recyc Systems.

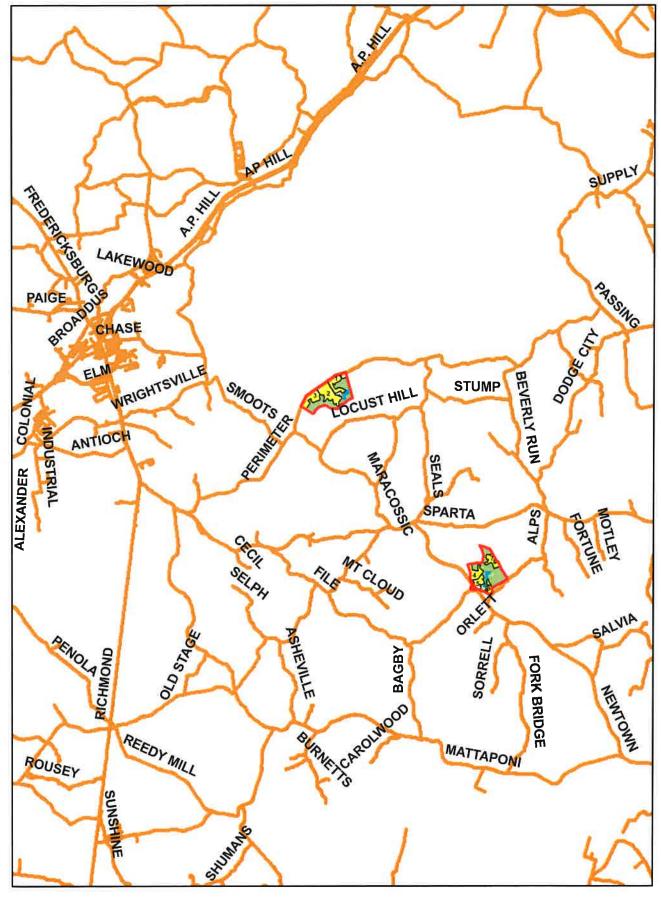
(Biosolids Land Application)





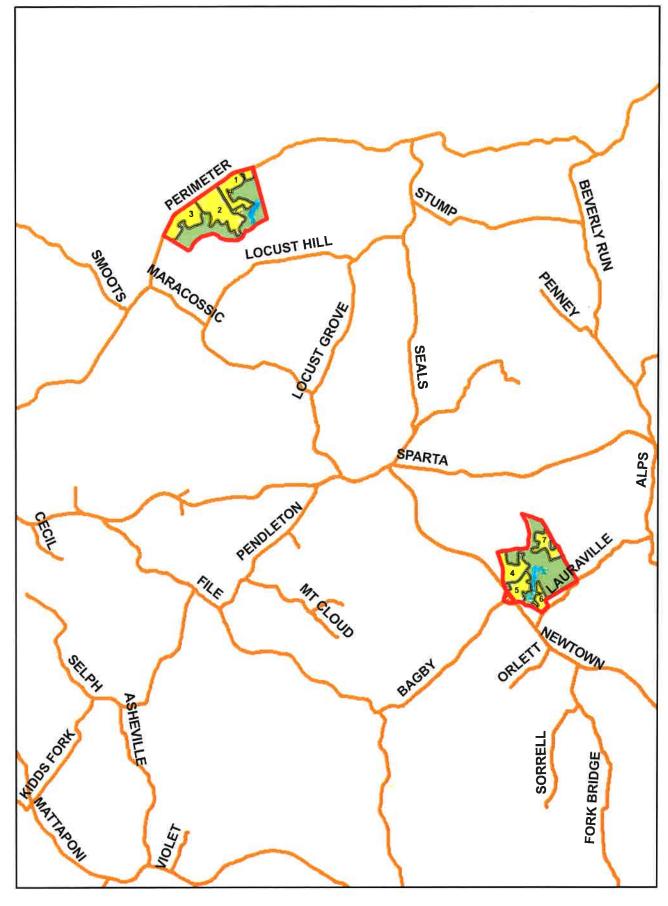
Scale:









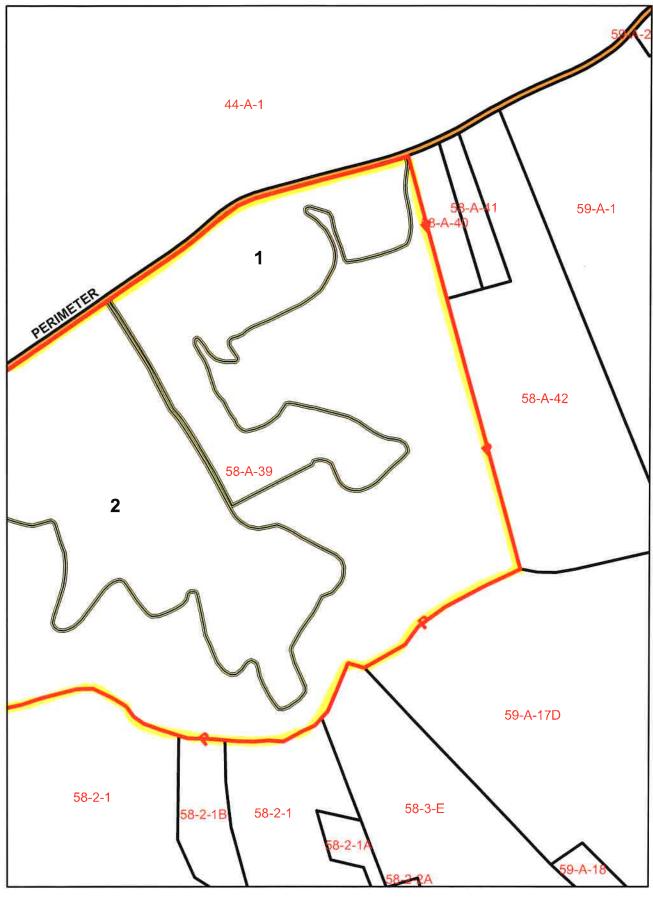




VICINITY MAP

1 inch = 1 mile



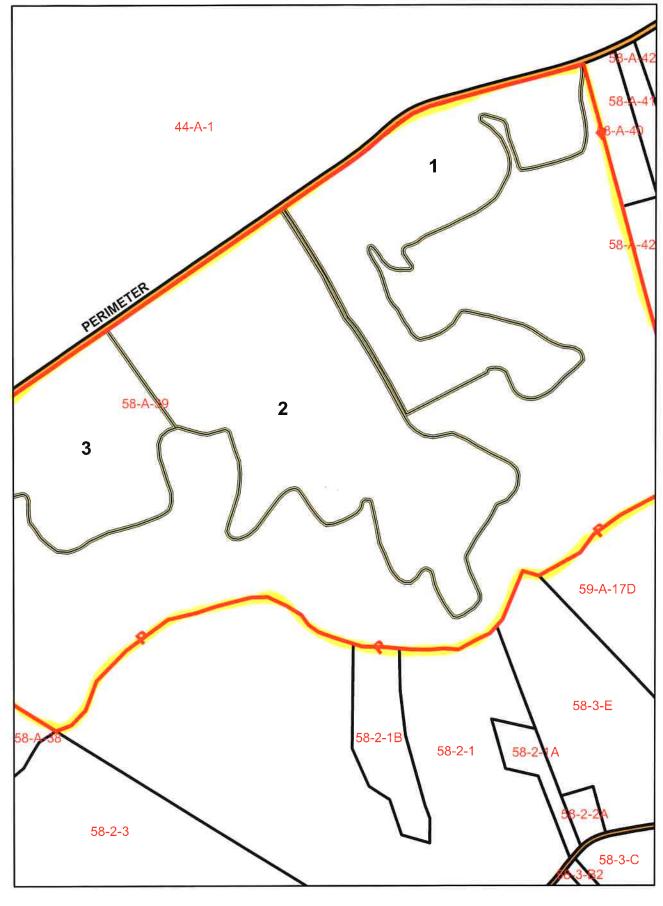


TAX MAP

1 inch = 660 feet

4-21-20



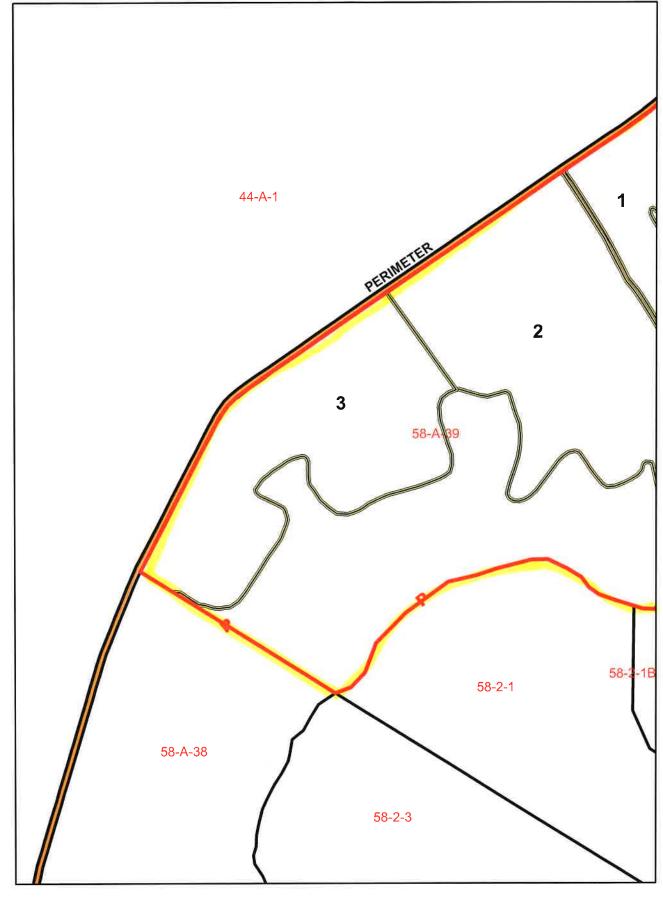


 \bigwedge

4-21-20

TAX MAP

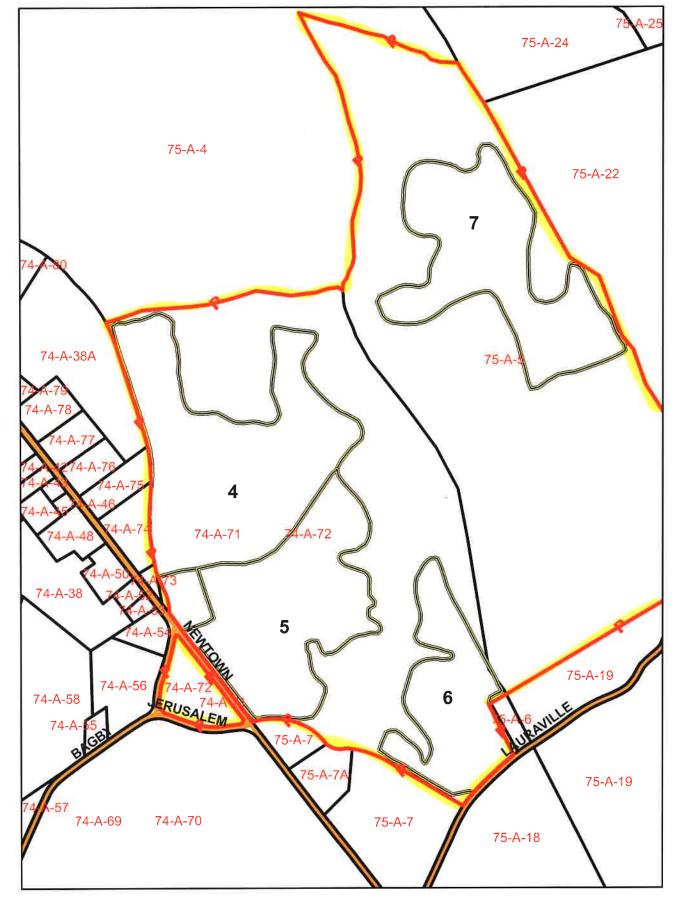






4-21-20 TAX MAP

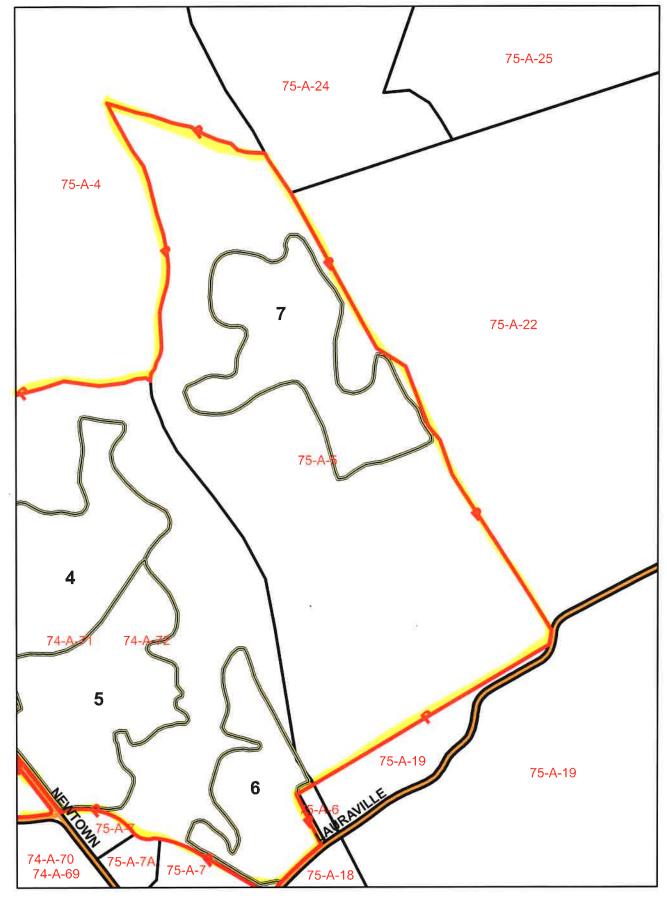






TAX MAP







TAX MAP

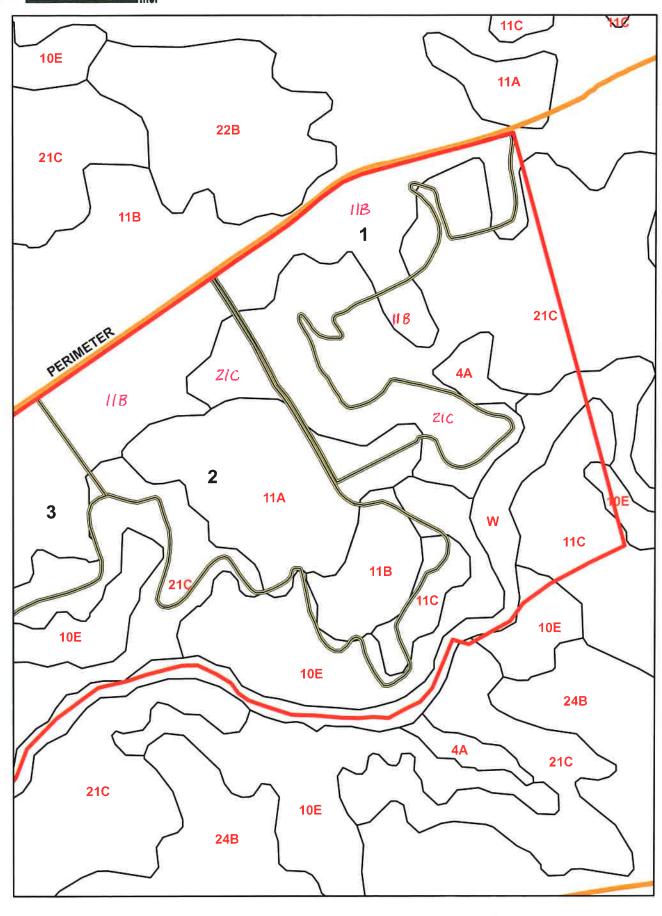
ADJOINING LANDOWNERS

Caroline

Thomas J Ball Jr

Tax Map Number	Owner Name(s)
	Fields 1 - 3
	21
44-A-1	Fort A P Hill
44-A-40	Matthew Francis Eak & Gwen Virginia
44-A-41	Thomas L Ball
44-A-42	Emmitt Darrell Hayden
59-A-17D	William H Dustin Jr & Barbara
58-3-E	Thomas W Blanton
58-2-1	Bessie B Allen Life Estate
58-2-1B	Bessie R Allen
58-2-3	Broaddus Properties LLC
58-A-38	W A Carter etals

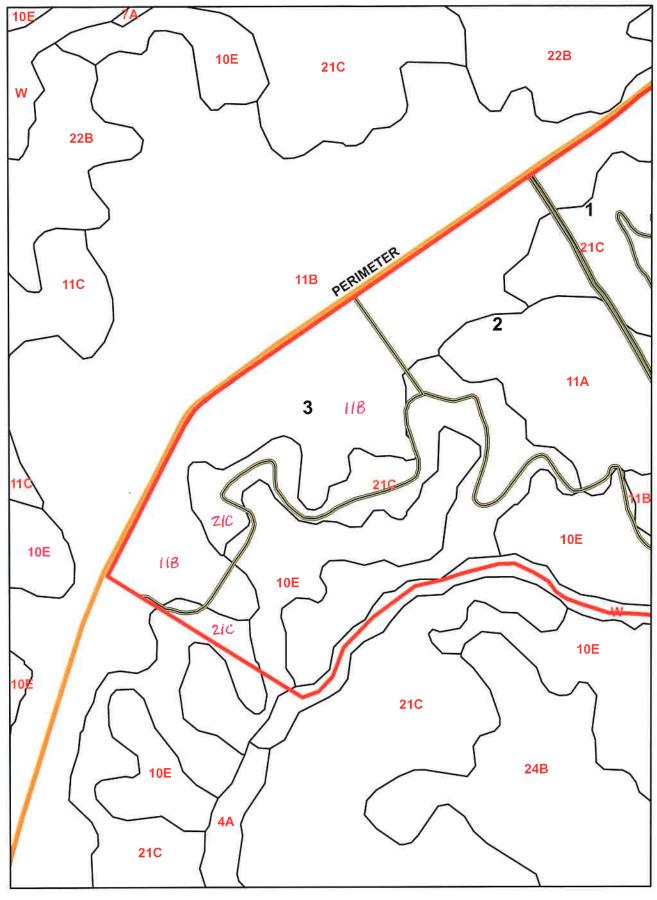
Tax Map Number	Owner Name(s)
	Fields 4 - 7
74-A-69	Rock Holding East LLC
74-A-70	Rock Holding East LLC
74-A-56	Trustees of Jerusaleum Baptist Church
74-A-54	Ruth E Coleman
74-A-53	Price Sophia & Andre McManu
74-A-52	3337 LLC
74-A-50	Frank & Dorothy Coleman
74-A-73	Thomas J Ball Jr
74-A-74	Harry Coleman
74-A-75	Sylvia C Martin
74-A-38A	Geneva M Lewis
75-A-4	Helen C Anderson
75-A-24	Richard L Britt
75-A-22	Torrey & Carolyn Hawley
75-A-19	E D David Trustee
75-A-6	Richard D & Virginia Berry
75-A-18	Mary Jo & richard Lunoe
75-A-7	James S & Elaine T Harris
75-A-7A	Stephen C Pitts





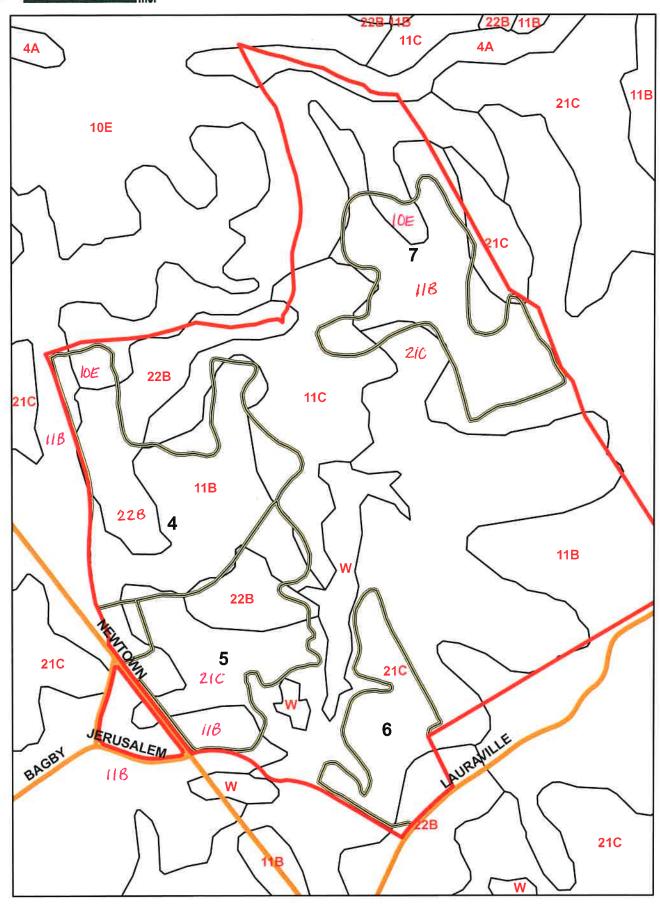
SOIL MAP







4-z1-zo SOIL MAP





4-21-20

SOIL MAP









AERIAL MAP









AERIAL MAP









AERIAL MAP

Farm 2974 Tract 3099 Homes Boll to 49.73 HEL 45.38 NHEL 2019 Program Year 72.85 Map Created June 05, 2019 NHEL **Common Land Unit** // Non-Cropland Cropland rcl_l_va033 Tract Boundary Wetland Determination Identifiers Restricted Use Exempt from Conservation Compliance Provisions Tract Cropland Total: 167.96 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

36.64 HEL

Farm 2974 Tract 3105

Thomas Bull, do

2019 Program Year

Map Created June 05, 2019

Common Land Unit

- // Non-Cropland Cropland rcl_l_va033
 - Tract Boundary

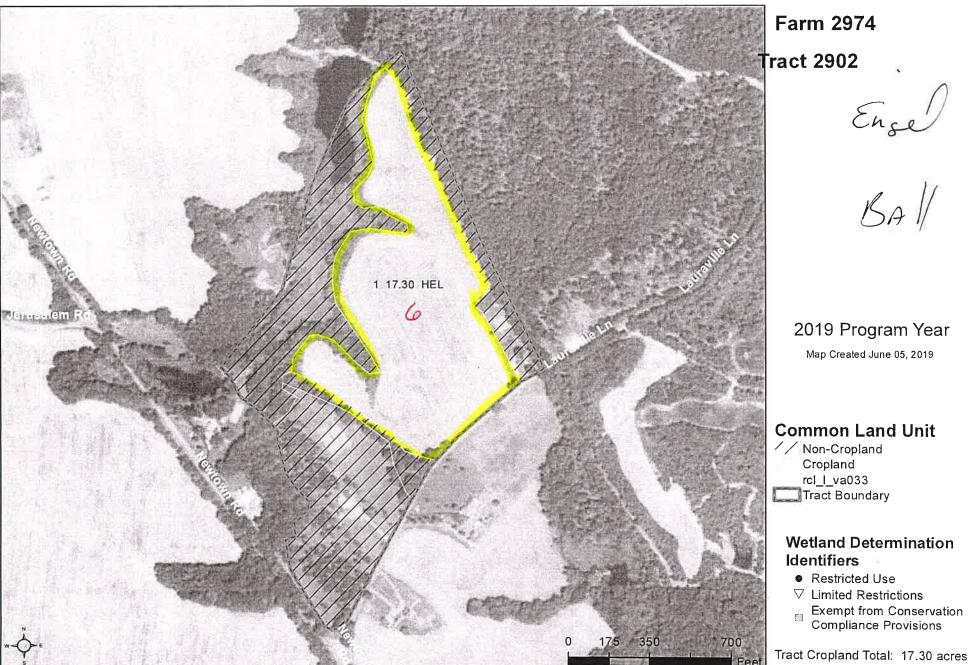
Wetland Determination Identifiers

- Restricted Use
- ∇ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 68.61 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).





United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



1 25.63 HEL

Farm 2974

Tract 2899

Eng BALL

2019 Program Year

Map Created June 05, 2019

Common Land Unit

// Non-Cropland Cropland

Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 25.63 acres

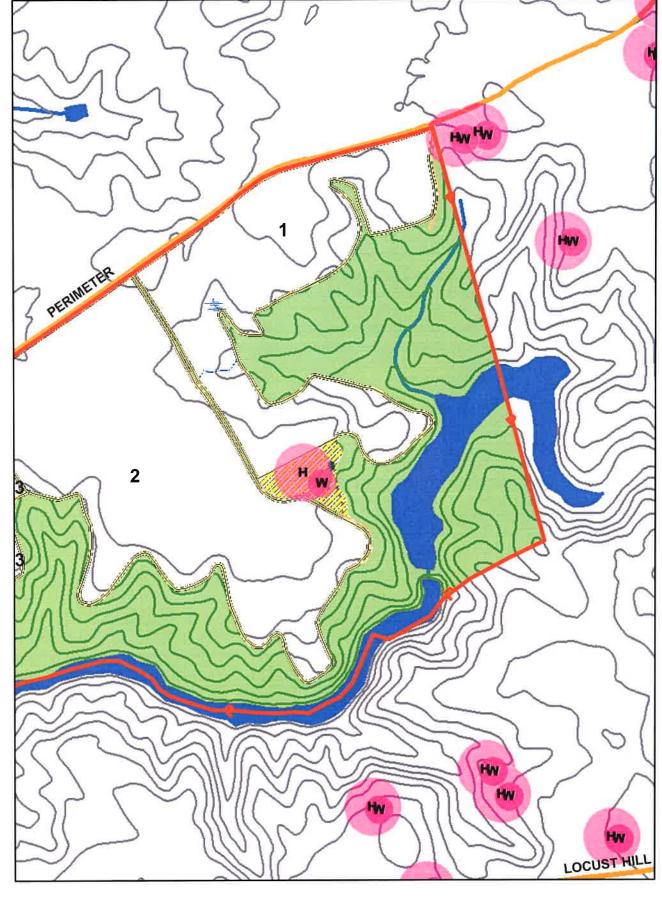
United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Legend For Site Plan

Symbol	Feature	Minimum Setback
HW	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
W S	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
Ш	Wet Spot	#E
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
Ξ.	Severely Eroded Spot	18 Inch minimum depth of soil
s	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
**************************************	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P_ P_	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.



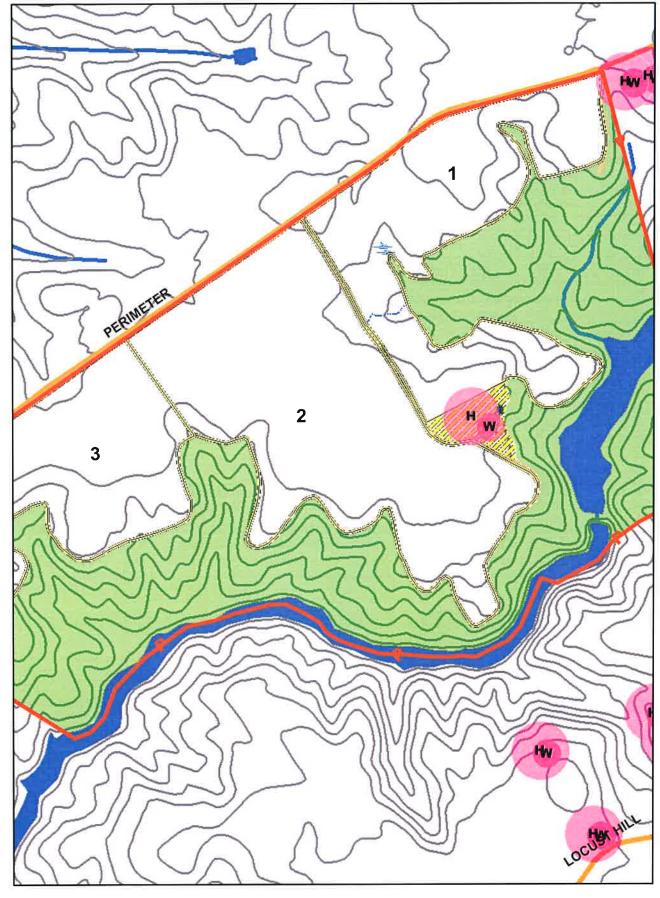




4-21-20

SITE PLAN



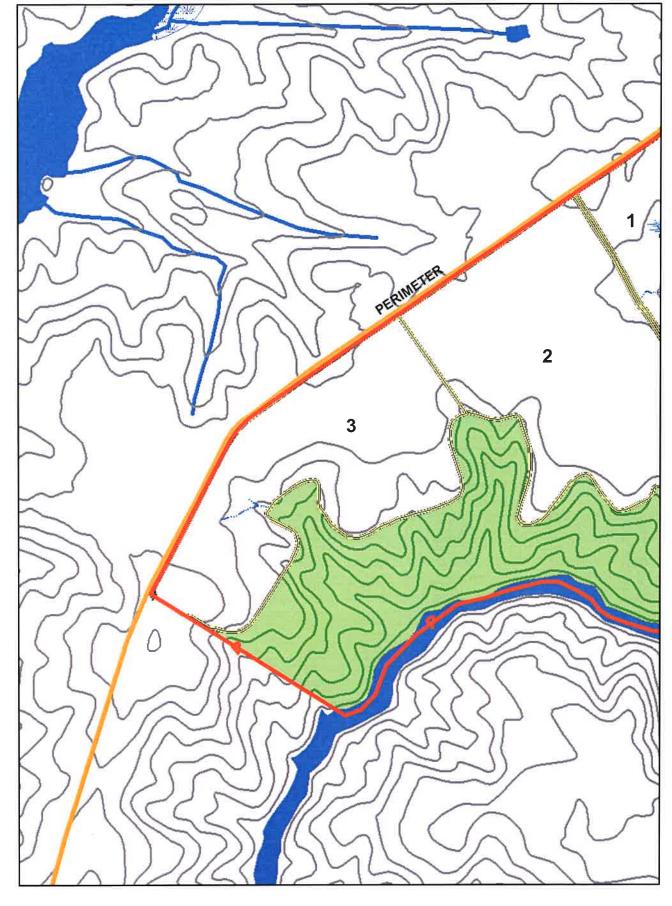




4-21-20

SITE PLAN



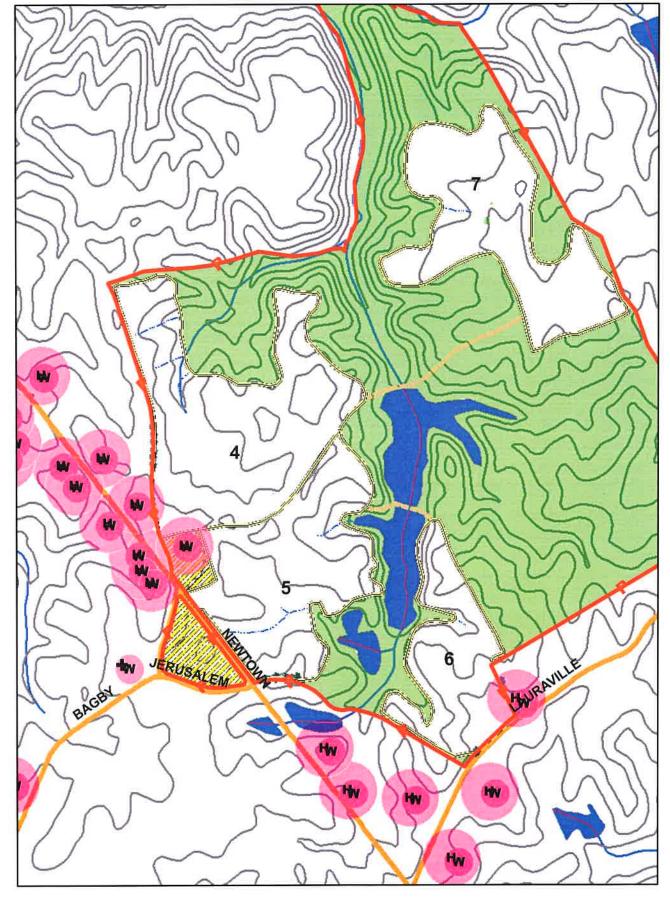




SITE PLAN

4-21-20

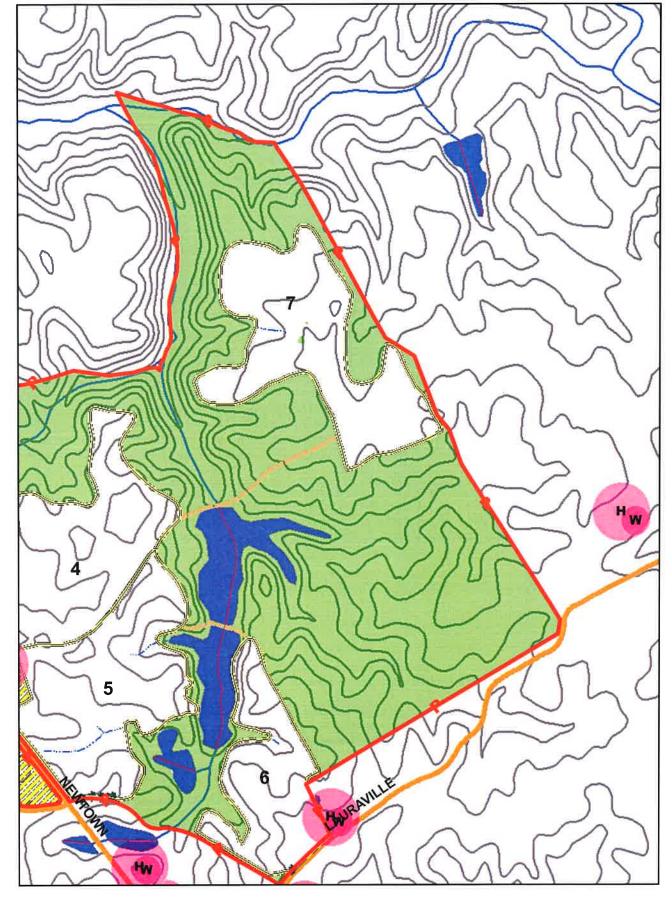






SITE PLAN







4-21-20

SITE PLAN



